Amanuel Wondim

Software Engineer

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Software and Cyber Security Engineering graduate (Addis Ababa University, 2026) with 2+ years building production backend and data systems for insurance, e-commerce, recruiting and trading teams. Strong in Python, APIs, data pipelines and performance work; built and run StratsLab, a trading-strategy backtesting platform live in production.

TECHNICAL SKILLS

Languages: Python, C++, Java, TypeScript / JavaScript

Backend & APIs: FastAPI, Flask, Django, REST, WebSocket, webhooks

Data: PostgreSQL, ClickHouse, SQLite, RabbitMQ, Hadoop, Apache Spark

Frontend: Vue 3, React, Next.js

Infrastructure: Docker, Kubernetes, Linux, GitHub Actions CI/CD, AWS

Foundations: data structures, algorithms, application security (OWASP Top 10)

PROFESSIONAL EXPERIENCE

Software Engineer 11/2025 – Present
EcorRouge · Freelance Remote, United States

- Built KPI dashboards (earned premium, claim frequency, losses) for **Tessera**, an insurance analytics platform, on a **ClickHouse** KPI warehouse, and mapped SERFF filings into its market overview.
- Built quote and submission flows across the S2 Workbenches over authenticated **REST APIs** and webhooks, with database migrations.
- Built an **email-intake pipeline** that extracts submission data, with admin screens to run it. Worked across Vue and Flask repositories, including CI and tests.

Full Stack Developer 12/2024 – 10/2026
Howard Miller® & Hekman® Furnishings · Full-time Remote, United States

- Built and maintained large-scale order-processing pipelines aggregating **Amazon**, **Shopify** and other e-commerce data with **Hadoop** and **Apache Spark**.
- Optimized **GPU-accelerated** workloads, cutting processing latency from **5 minutes to under 15 seconds**, and kept the system reliable under high-volume loads.
- Administered servers, CI/CD, monitoring and backups, and automated routine ops tasks.

Back End Developer 05/2025 – 02/2026
HeyMilo AI · Part-time Remote, United States

- Built a high-throughput **ATS integration** service syncing **10,000+ users** using webhooks, parallel processing and multi-ATS polling; added load balancing and tuned data pipelines for minimal downtime under heavy concurrent load.
- Designed REST APIs and automated recruitment workflows.

Automation Engineer 11/2024 – 03/2025
ZZ Capital Management, LLC · Part-time Remote, United States

- Automated trade gathering, updating and reporting, cutting **2–3 hours** of daily manual work to seconds and improving the accuracy of daily trading updates.

Backend Development Intern 07/2024 – 02/2025
Eskalate · Internship Addis Ababa, Ethiopia

- Led a small team delivering an **AI-powered blog platform**; designed backend services and APIs and shipped features end-to-end with the frontend team.

PROJECTS

StratsLab · strats.amanuel.me 07/2024 – Present
A trading strategy backtesting platform. In a chat, an LLM turns a strategy written in plain English into a structured, testable one, and a REST API runs it against historical market data. Signed-in users create strategies and review results in a **Vue** web app. Live in production with Google sign-in.

MindEase · github.com/Amantsehay/MindEase · team of 6 03/2026 – 05/2026
An AI mental-health support platform: a Next.js 14 app, a **FastAPI** backend on **PostgreSQL** with pgvector, and an Ollama-based AI service (Gemini for Amharic translation and embeddings), with streaming chat over WebSocket, crisis and mood detection, and a voice avatar. My part: fixing the mood detector, the AI-service and GPU-stack run scripts, and avatar picker performance.

Web Application Security Scanner · github.com/Amantsehay/eth 01/2026
An OWASP-focused scanner with a command-line tool and a web interface. It checks HTTP security headers, probes for exposed files and directories, tests for reflected XSS and open redirects, and reports findings as JSON. Scans run as background jobs with status polling.

Swarm · github.com/Amantsehay/swarm 09/2026
A self-hosted scholarship application engine. It watches funding feeds, scores each award against your profile, and drafts the application with a model of your choice, local or hosted, then sends it or parks it for a one-click review. Every account keeps its own profile, documents and applications.

EDUCATION

Software and Cyber Security Engineering, Addis Ababa University 09/2021 – 2026 · Graduated

African to Silicon Valley (A2SV), trainee · data structures, algorithms, competitive programming 11/2023 – 08/2024